

SOLID-STATE IMAGE PICKUP APPARATUS

BACKGROUND OF THE INVENTION

Field of the Invention

5 The present invention relates to a solid-state
image pickup apparatus and image pickup system and,
more particularly, to a solid-state image pickup
apparatus having a pixel including a photoelectric
conversion unit, a read transistor for reading a signal
10 from the photoelectric conversion unit, and a reset
transistor for supplying a reset signal to the input
portion to reset the input portion of the read
transistor, and an image pickup system using such the
apparatus.

15 Related Background Art

Conventionally, a CCD has been often used as a
solid-state image pickup apparatus because of its high
S/N ratio. On the other hand, a so-called
amplification type solid-state image pickup apparatus
20 that is advantageous in a simple manner of use or low
power consumption has also been developed. An
amplification type solid-state image pickup apparatus
supplies signal charges accumulated in a
light-receiving pixel to the control electrode of a
25 transistor in the pixel unit and outputs an amplified
signal from the main electrode. Examples of
amplification type solid-state image pickup apparatus